

CW-WZ-0142

2.4G External Antenna

Key Features

Frequency: 2.4-2.5G

SMA Male Connector

External Rubber

Dimensions 48 mm



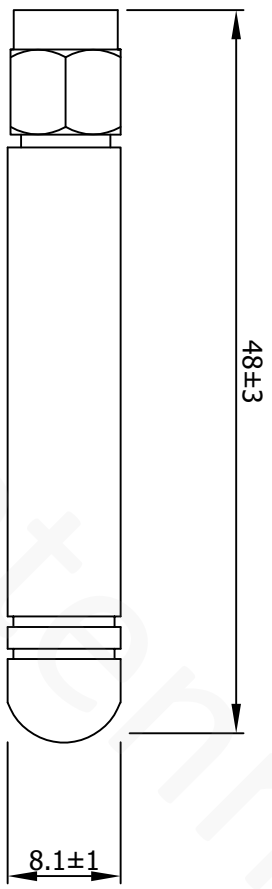
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G
VSWR	2.0
Efficiency (%)	51.36%
Peak Gain (dBi)	3.32
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

Inner structure	Spring
Material of Plastic	TPEE
Cable Type	N/A
Connector Type	SMA Male
Dimensions (mm)	48MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

REV	Date	Description
X1	2023/11/09	New issue



Specification(Free Test):
 Frequency Range: 2.4-2.5G
 Impedance: 50Ω
 V.S.W.R: ≤ 2.0
 100% Continuity,short and open circuit test
 Materials,parts and process must by environmentally (ROHS)

3	Radome	Black TPEE	1	
2	Spring	Brass	1	
1	Connector	SMA male	1	
NO	Name	Description	Q'TY	Remark
XX	±5.0	Approved		
X	±3.0	Checked		
.X	±1.0			
.XX	±0.2			
.XXX	±0.1	Drawing		
		Customer		
		Part NO.		
		Part name		External antenna
		CW P/NO.		CW-WZ-0142
		REV	Unit	File
		X1	m/m	Sheet :
				1/1



4. Antenna test parameters

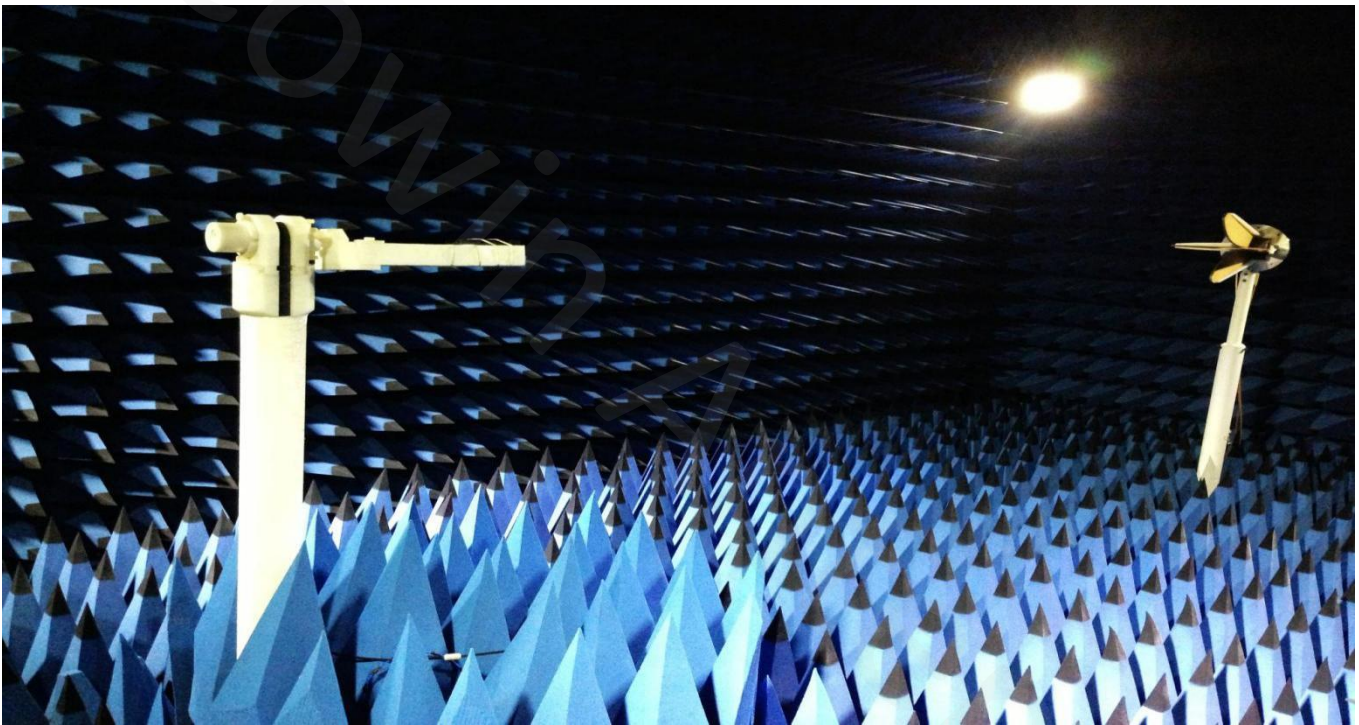
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

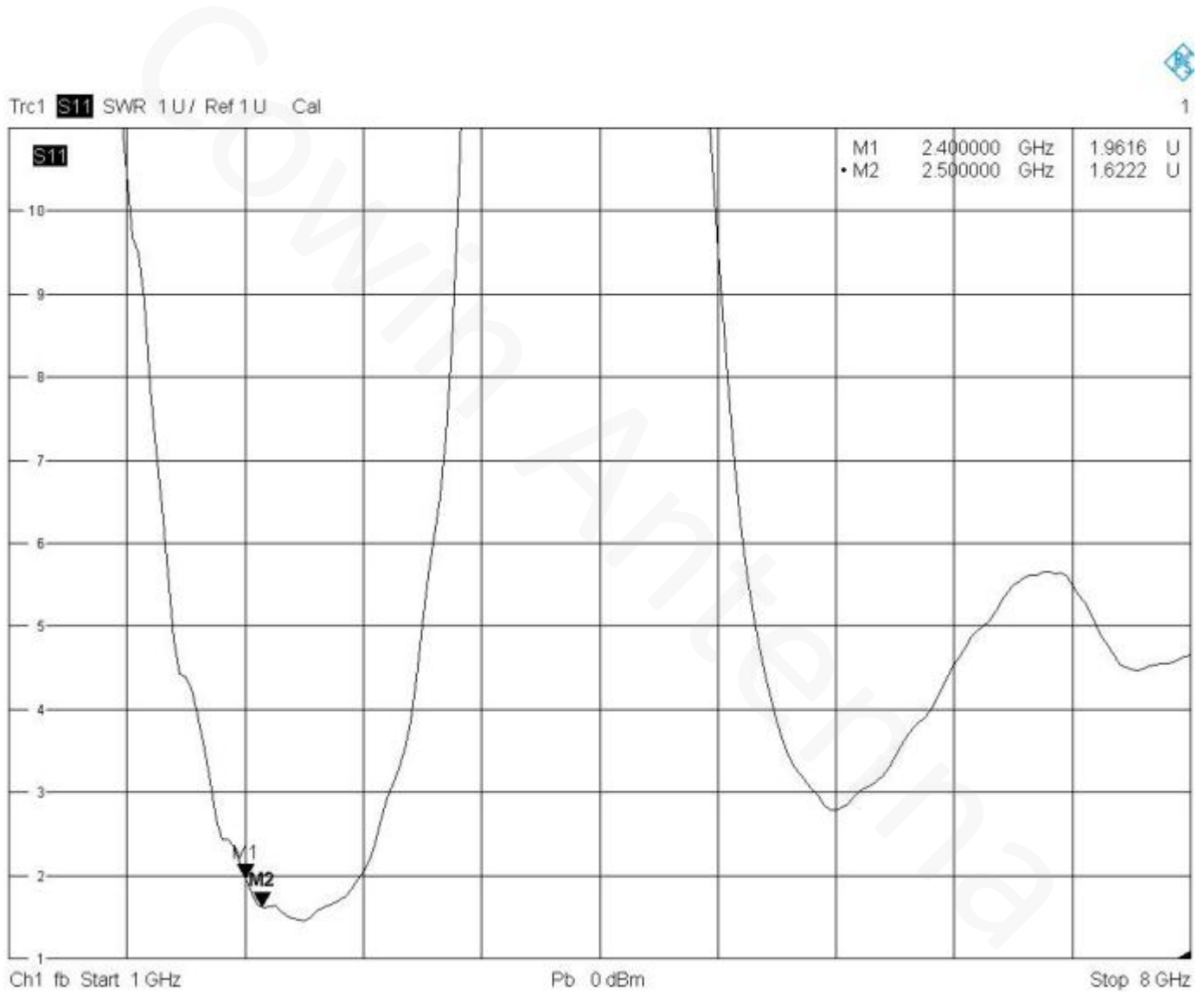
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

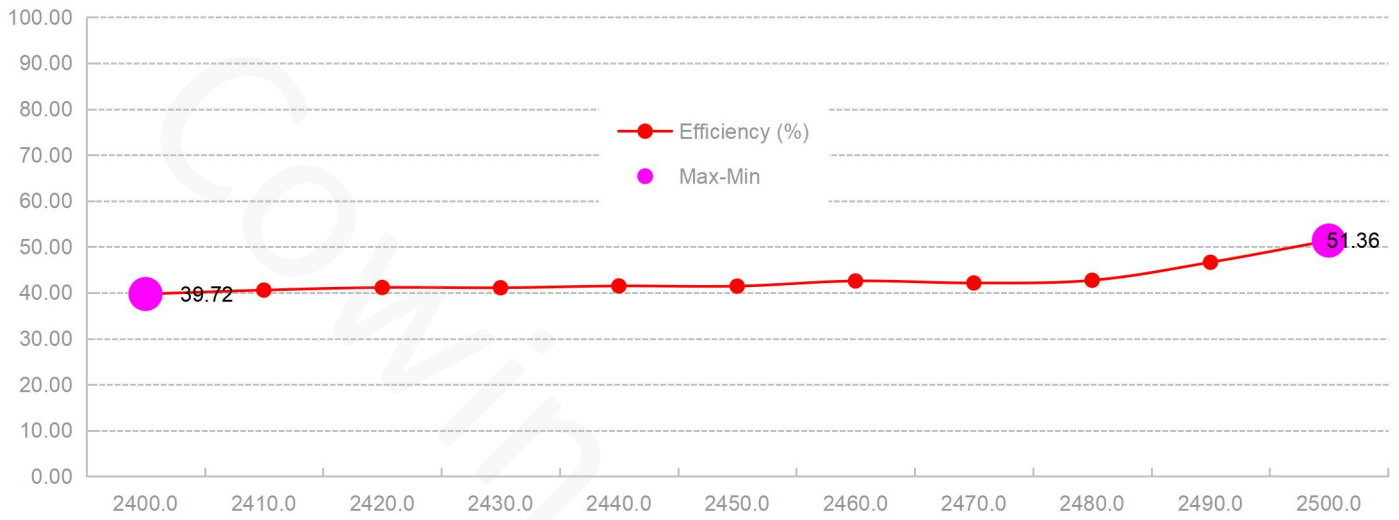
The comprehensive tester is Agilent cmv500



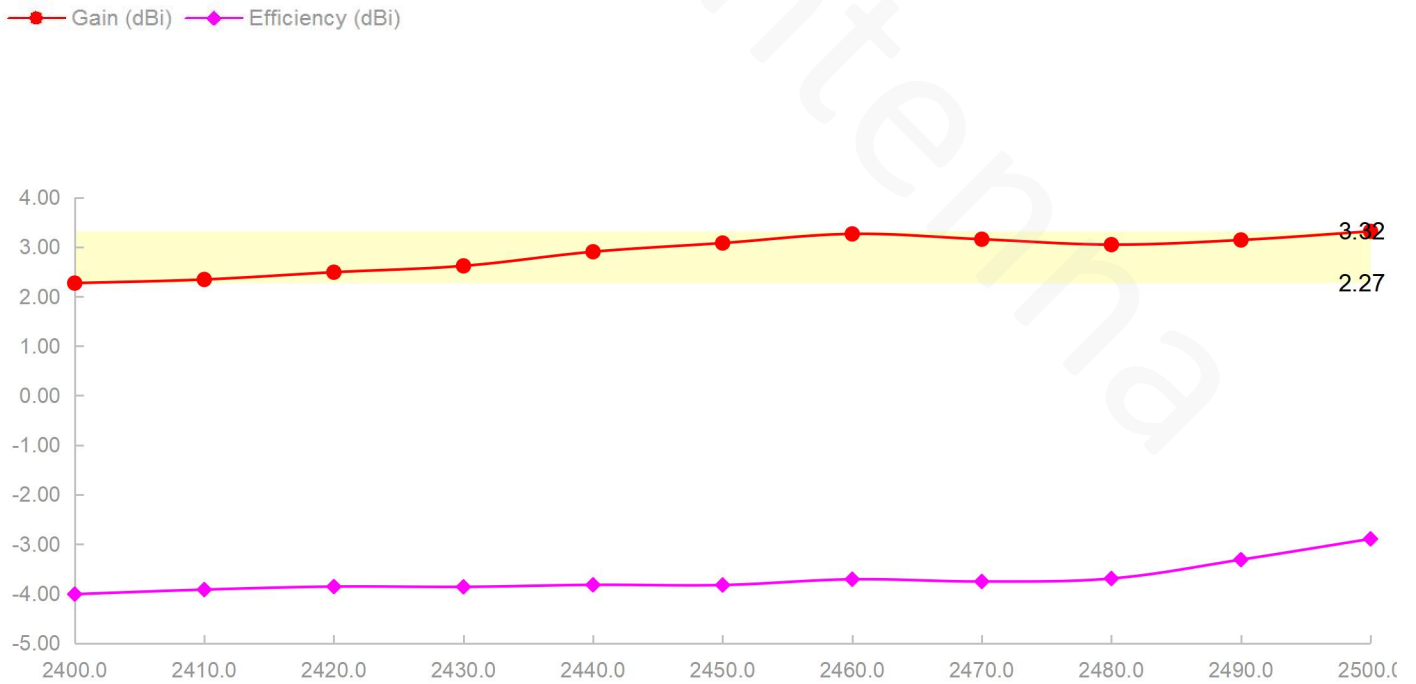
4.1 VSWR



4.2 Efficiency

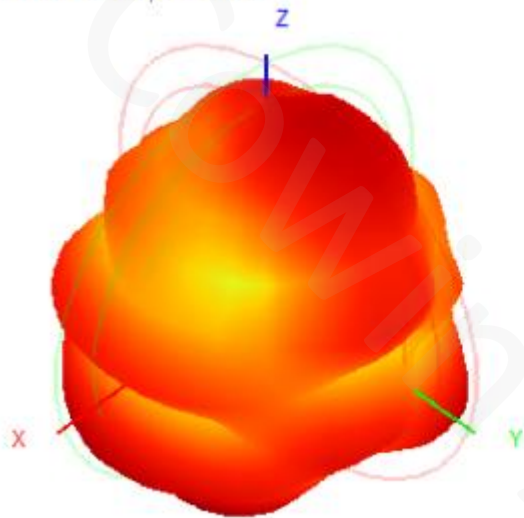


4.3 Peak gain

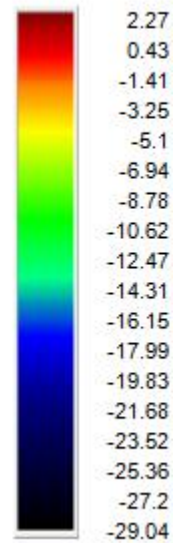
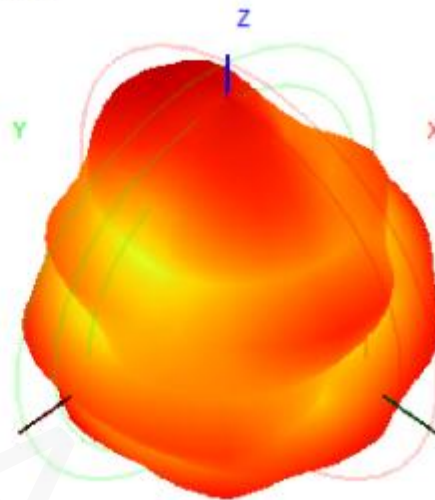


4.4 3D&2D Radiation Patterns

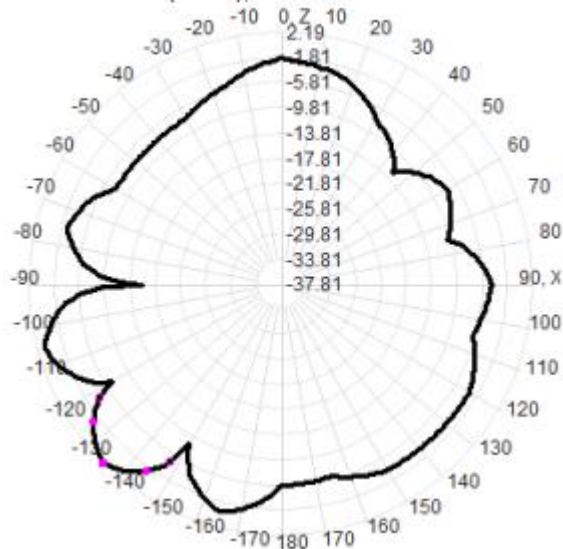
2400.0MHz H+V, Eff: 39.7%



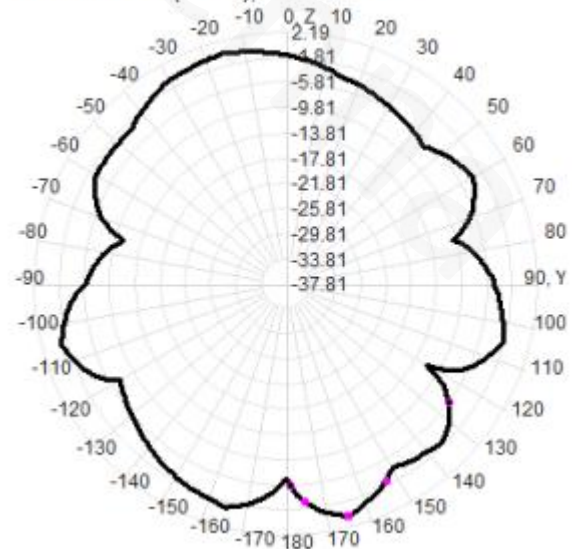
Back View



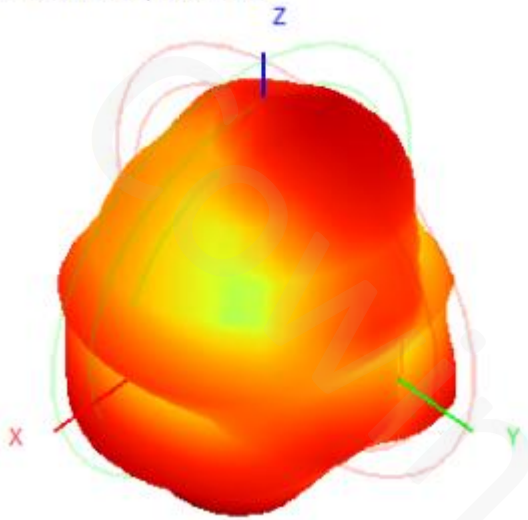
2400.0MHz Total(E1-XZ), Max= 2.19dBi



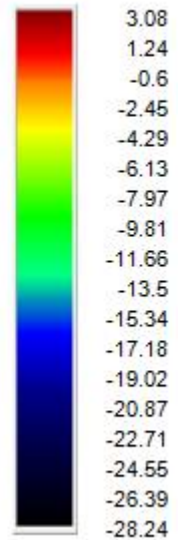
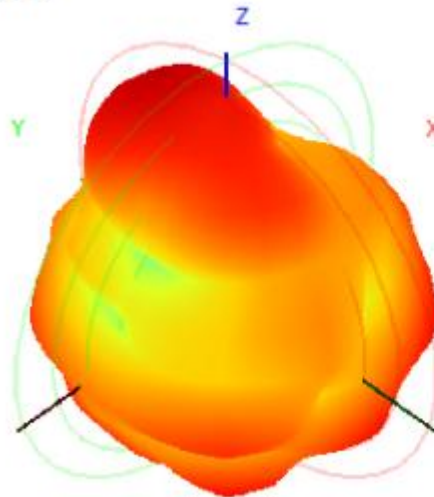
2400.0MHz Total(E2-YZ), Max= 0.13dBi



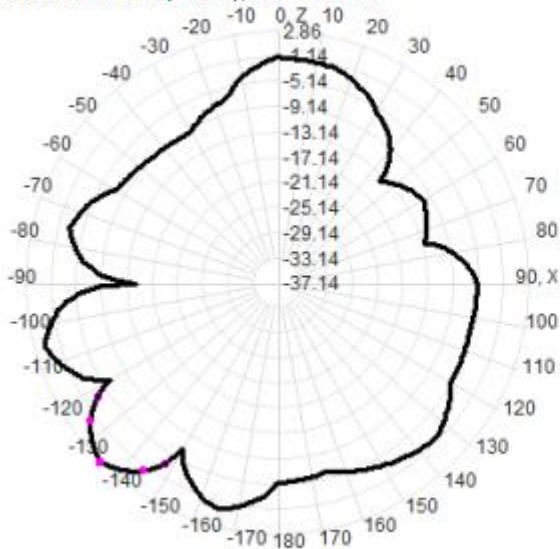
2450.0MHz H+V, Eff: 41.4%



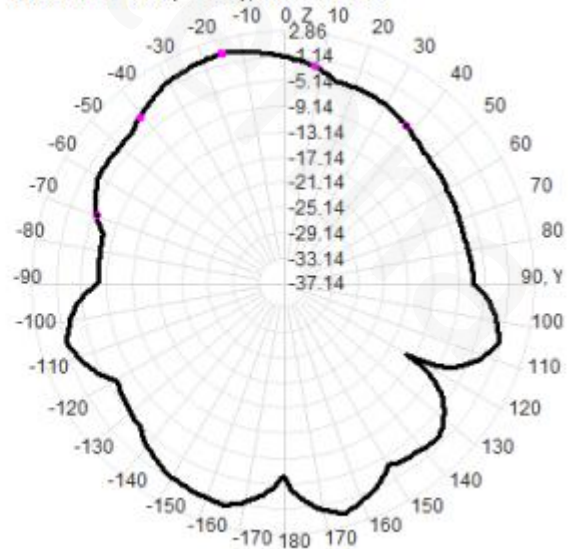
Back View



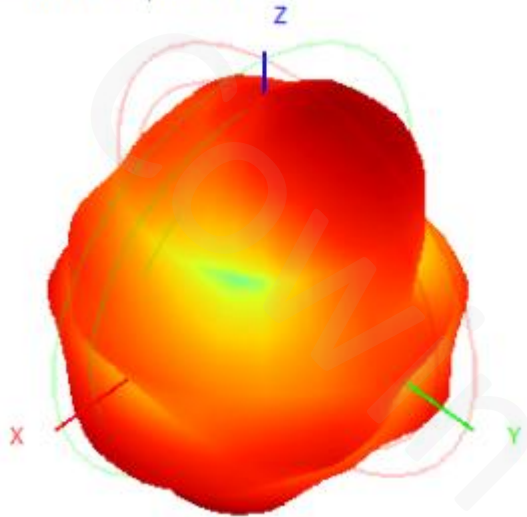
2450.0MHz Total(E1-XZ), Max= 2.86dBi



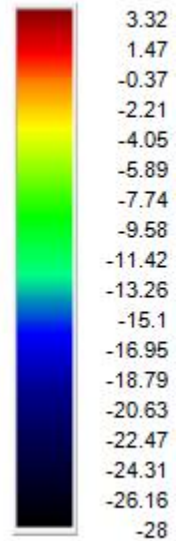
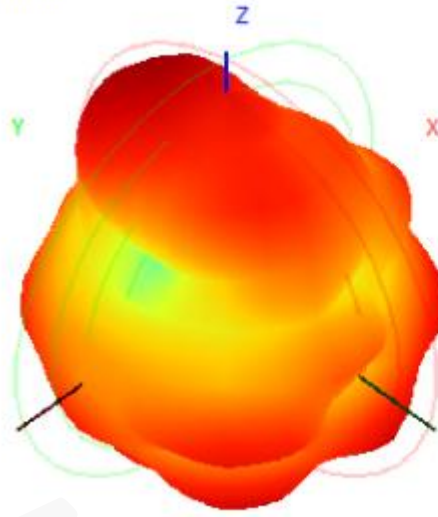
2450.0MHz Total(E2-YZ), Max= 0.61dBi



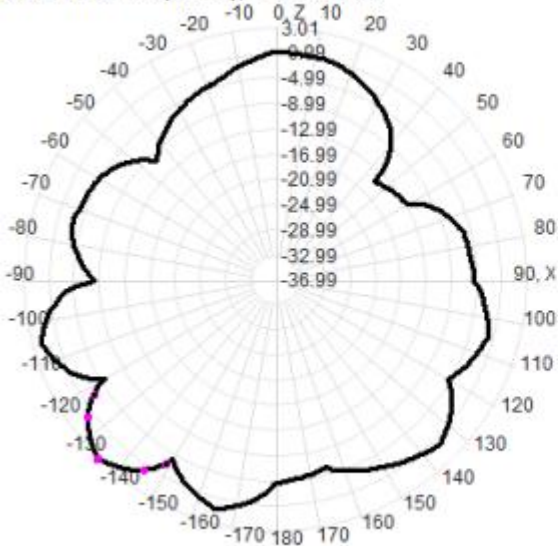
2500.0MHz H+V, Eff: 51.4%



Back View



2500.0MHz Total(E1-XZ), Max= 3.01dBi



2500.0MHz Total(E2-YZ), Max= 1.87dBi

